INKEL

16 CH STEREO
AUDIO MIXER

MX-1600

Service Manual

1

Contents

SPECIFICATIONS 2
ELECTRICAL PROCEDURE 3
PARTS LIST 4, 5, 6, 7, 8, 9, 10
PARTS LIST ACCORDING TO EXPLODED VIEW 11
EXPLODED VIEW OF CABINET & CHASSIS 12, 13
TOP VIEW OF P. C. BOARDS 14, 15
INPUT B'D SCHEMATIC DIAGRAM 16
MONITOR B'D SCHEMATIC DIAGRAM 17
STEREO B'D SCHEMATIC DIAGRAM 18
PGM B'D SCHEMATIC DIAGRAM 19
OSC B'D SCHEMATIC DIAGRAM 20
BLOCK DIAGRAM 21

Specifications

INPUT SENSITIVITY		
MIC	:	0.3 mV/600ohm
LINE	:	100mV/47Kohm
PHONO	:	1mV/47Kohm
AUX	:	1V/47Kohm
TALK-BACK	:	3mV/47Kohm
SIGNAL TO NOISE RATIO		
MIC	:	68dB
LINE	:	89dB
PHONO	:	68dB
AUX	:	96dB
TALK-BACK	:	63dB
OUTPUT VOLTAGE		
PGM	:	± 4dBm/600ohm
EFX	:	± 4dBm/600ohm
STEREO	:	± 4dBm/600ohm
MONITOR	:	± 4dBm/600ohm
HEADPHONE OUTPUT	:	20mV/8ohm
TONE CONTROL		
LOW	:	± 15dB
LOW-MID (400Hz)	:	± 12dB
HI-MID (3KHz)	:	± 12dB
HI (15KHz)	:	± 15dB
TOTAL HARMONIC DISTORTION	:	0.025%
FREQUENCY RESPONSE (± 1dB)	:	20Hz to 20KHz
OSC FREQUENCY	:	400Hz, 1KHz, 8KHz
EQUIVALENT INPUT NOISE LEVEL	:	-128dB
CROSS TALK	:	70dB
DIMENSIONS	:	880(W) × 219(H) × 655(D)mm
WEIGHT (NET)	:	29Kg

NOTE: SPECIFICATIONS AND DESIGN SUBJECT TO CHANGE WITHOUT NOTICE FOR IMPROVEMENTS.

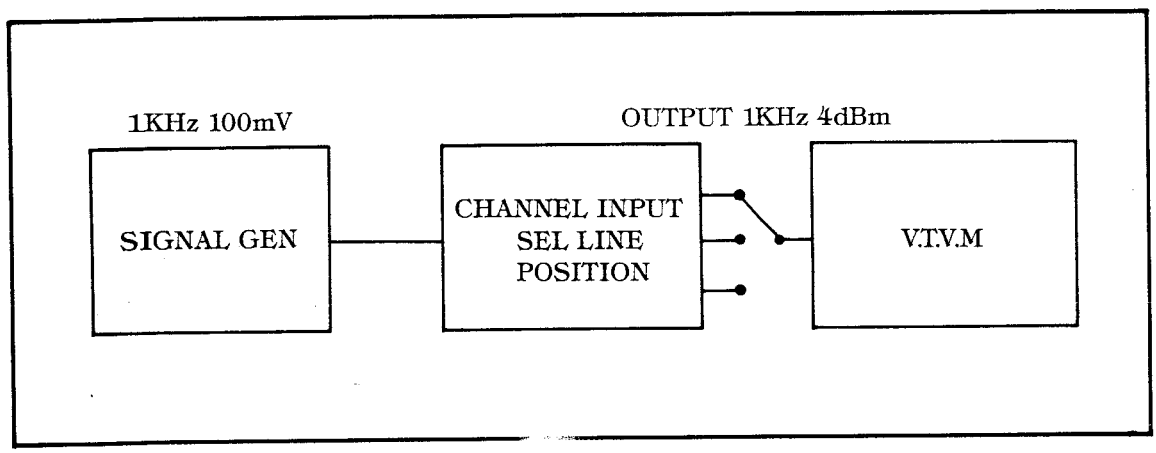
3

Electrical Adjustment Procedure

A. SETTING

INPUT GAIN	"0" POSITION
HIGH CONTROL	CENTER
MID CONTROL	CENTER
LOW CONTROL	CENTER
MON CONTROL	"0" POSITION
ECHO CONTROL	"0" POSITION
PAN CONTROL	CENTER

B. CONNECTION



C. ADJUSTMENT

- Apply a 1KHz input signal of 100mV.
- Adjust the master fader so that output voltage becomes 4dBm.

Parts List

Ref No.	Parts No.	Description	Q'ty
INPUT B'D 4003514200			
Q101, Q102 × 12	2008606108	TR NPN KTC 2240 BL KEC	24
Q106 × 12	2008206999	TR PNP 2SA 200(Y) KEC	12
Q103, Q104, Q105 × 12	2008606104	TR NPN KTC 1815Y KEC	36
IC101 × 12	2168220101	IC TL 072D JRC	12
IC102 × 12	2168220992	IC 2068D JRC	12
IC103, 104, 105 × 12	2168007110	IC TA 4558P	36
D102, D103 × 12	2058306101	DIODE CDG 24	24
D101 × 12	2058010100	DIODE 1N60	12
R121, R122	3009270273	RES CF 27 1/4W JN	48
R190, R189 × 12			
R136, R119	3009470273	RES CF 47 1/4W JN	72
R120, R135			
R187, R188 × 12			
R103 × 12	3009680273	RES CF 68 1/4W JN	12
R118 × 12	3009390273	RES CF 39 1/4W JN	12
R117, R185	3009101273	RES CF 100 1/4W JN	48
R176, R169 × 12			
R161, R146	3009221273	RES CF 220 1/4W JN	84
R147, R164			
R165, R174			
R173 × 12			
R137 × 12	3009151273	RES CF 150 1/4W JN	12
R102, R101	3009102273	RES CF 1K 1/4W JN	108
R183, R173			
R179, R180			
R171, R172			
R129 × 12			
R107, R113	3009152273	RES CF 1.5K 1/4W JN	60
R115, R114			
R156 × 12			
R167 × 2	3009222273	RES CF 2.2K 1/4W JN	12
R104, R151	3009272273	RES CF 2.7K 1/4W JN	36
R154 × 12			
R160, R112	3009472273	RES CF 4.7K 1/4W JN	60
R111, R168			
R140 × 12			
R116 × 12	3009562273	RES CF 5.6K 1/4W JN	12
R105, R106 × 12	3009682273	RES CF 6.8K 1/4W JN	24
R149 × 12	3009302273	RES CF 3K 1/4W JN	12
R163 × 12	3009392273	RES CF 3.9K 1/4W JN	12
	3009123273	RES CF 12K 1/4W JN	12
R158 × 12	3009333273	RES CF 33K 1/4W JN	12
R109, R110	3009103273	RES CF 10K 1/4W JN	48
R125, R126 × 12			
R162, R145	3009153273	RES CF 15K 1/4W JN	36
R148 × 12			
R196, R195	3009223273	RES CF 22K 1/4W JN	108
R194, R193, R191			
R192, R181			
R182, R183 × 12			
R144, R123	3009473273	RES CF 47K 1/4W JN	36
R124 × 12			
R155 × 12	3009683273	RES CF 68K 1/4W JN	12
R130, R131	3009104273	RES CF 100K 1/4W JN	132
R159, R128			
R127, R150			
R184, R138			
R141, R166			
R175 × 12			
R152, R153 × 12	3009154273	RES CF 150K 1/4W JN	24
R180, R157 × 12	3009184273	RES CF 180K 1/4W JN	24
VR107, 108	3208026010	VRφ16 10KA × 1K20	36
VR109 × 12			
VR102, VR103	3228099710	VRφ16 100KB × 1K20 (CD)	48
VR104, VR105 × 12			
VR101 × 12	3228095410	VRφ16 5KRD × 2K20	12
VR106 × 12	3228099510	VRφ16 10KB × 2K20	12
C150 × 12	3409210971	CAP E RSA 1μF 50V	12
C147, C144	0409210071	CAP E RSA 10μF 50V	72
C153, C152			
C151, C154 × 12			
C115, C116 × 12	3409222041	CAP E RSA 22μF 25V	24
C143, C139	3409247041	CAP E RSA 47μF 25V	144
C146, C148			
C117, C116			
C119, C129			
C155, C134			
C135, C137 × 12			
C107, C132	3409210141	CAP E RSA 100μF 25V	36
C106 × 12			
C110 × 12	3409247121	CAP E RSA 470μF 10V	12
C104, C105	3409247074	CAP E RSA 47μF 50V	36
C103 × 12			
C122 × 12	340987030	CAP E NP 47μF 16V	12
C124 × 12	3609563120	CAP M 0.056μF 100V J	12
C123, C125 × 12	3609123120	CAP M 0.012μF 100V J	24
C127 × 12	3609152120	CAP M 0.0015μF 100V J	12
C128 × 12	3609562120	CAP M 0.0056μF 100V J	12
C126 × 12	3609103120	CAP M 0.01μF 100V J	12
C112, C111 × 12	3509331130	CAP C 330P 50V J	24
C140, C101	3509101130	CAP C 100P 50V J	72
C102, C120			
C130, C136 × 12			
C121 × 12	3509150130	CAP C 15P 50V J	12
C113, C114 × 12	3509680130	CAP C 68P 50V J	24

5

Ref No.	Parts No.	Description	Q'ty
C154, C131 × 12	3509470130	CAP C 47P 50V J	24
C133, C138 × 12	3509472130	CAP C 4700P 50V J	24
C108, C109	3509104130	CAP C 0.1μF 50V J	48
C151, C152 × 12			
C125 × 12	3509102130	CAP C 0.001μF 50V J	12
	2648699990	CHOCK COIL	24
LED101	2308999910	LED REDφ3	12
	3228095110	PUSH SW 5KEY 2CIRCUIT	12
	3228094810	PUSH SW 4KEY 2CIRCUIT	12
	3228095210	PUSH SW IKEY 2CIRCUIT	12
	4355005010	WAFER LA 2P	24
	4228598230	WAFER LA 3P	48
	4428598270	WAFER LA 7P	24
	4428598250	WAFER LA 5P	12
	8543998710	PUSH KNOB (BLACK)	60
	8543998720	PUSH KNOB (WHITE)	12
	6505989210	PCB BRACKET	12
	8009130061	SCREW BM 3 × 6Y	24
	8329070011	WASHER THD 1Nφ7Y	96
	415199120	CLIP LED FLAT WIRE	12
	415199110	TRIM FLAT WIRE	12
	4355974410	ASS'Y CONNECTOR PFL	12
Q101, Q102 × 4	2200860610 8	TR NPN KTC 2240BL KEC	8
Q103, Q104 Q105 × 4	2008606104	TR NPN KTC 1815(Y) KEC	12
Q106 × 4	2008206999	TR PNP 2SA 200(Y) KEC	4
IC101 × 4	2168220101	IC TL 0720 JRC	4
IC102 × 4	2168220992	IC 2068D JRC	4
IC103, 104, 105 × 4	2168007110	IC TA 75558P	12
D102, D103 × 4	2058306101	DIODE CDG24	8
D101 × 4	2058010100	DIODE 1N60	4
R121, R122 R190, R189 × 4	3009270273	RES CF 27 1/4W JN	16
R136, R119 R120, R135 R187, R188 × 4	3009470273	RES CF 47 1/4W JN	24
R103 × 4	3009680273	RES CF 68 1/4W JN	4
R118 × 4	3009390273	RES CF 39 1/4W JN	4
R117, R185 R176, R169 × 4	3009101273	RES CF 100 1/4W JN	16
R161, R146 R147, R164 R165, R174 R173 × 4	3009221273	RES CF 220 1/4W JN	28
R137 × 4	3009151273	RES CF 150 1/4W JN	4
R102, R101 R183, R173 R179, R180	3009102273	RES CF 1K 1/4W JN	36

Ref No.	Parts No.	Description	Q'ty
R171, R172 R129 × 4			
R107, R113 R115, R114	3009152273	RES CF 1.5K 1/4W JN	20
R156 × 4			
R167 × 4	3009222273	RES CF 2.2K 1/4W JN	4
R104, R151	3009272273	RES CF 2.7K 1/4W JN	12
R154 × 4			
R160, R112	3009472273	RES CF 4.7K 1/4W JN	20
R111, R168 R140 × 4			
R116 × 4	3009562273	RES CF 5.6K 1/4W JN	4
R105, R106 × 4	3009682273	RES CF 6.8K 1/4W JN	8
R149 × 4	3009302273	RES CF 3K 1/4W JN	4
R163 × 4	3009392273	RES CF 3.9K 1/4W JN	4
R158 × 4	3009333273	RES CF 33K 1/4W JN	4
R109, R110	3009103273	RES CF 10K 1/4W JN	16
R125, R126 × 4			
R196, R195	3009223273	RES CF 22K 1/4W JN	36
R194, R193 R191, R192 R181 × 4			
R162, R145 R148 × 4	3009153273	RES CF 15K 1/4W JN	12
R144, R123 R124 × 4	3009473273	RES CF 47K 1/4W JN	12
R155 × 4	3009683273	RES CF 68K 1/4W JN	4
R130, R131	3009104273	RES CF 100K 1/4W JN	44
R159, R128 R127, R150 R184, R138 R141, R166 R175 × 4			8
R152, R153 × 4	3009154273	RES CF 150K 1/4W JN	
R157, R180 × 4	3009184273	RES CF 180K 1/4W JN	8
VR107, VR108 VR109 × 4	3208026010	VRφ16 10KA × 1K20	12
VR102, VR103	3228099710	VRφ16 100KB × 1K20	16
VR104, VR105 × 4			
VR101 × 4	3228095410	VRφ16 5KRD × 2K20	4
VR106 × 4	3228099510	VRφ16 10KB × 2K20	4
C150 × 4	3409210971	CAP E RSA 1μF 50V	4
C147, C144 C153, C152 C151, C154 × 4	3409210071	CAP E RSA 10μF 50V	24
C115, C116 × 4	3409222041	CAP E RSA 22μF 25V	8
C143, C139 C146, C148 C117, C116	3469247041	CAP E RSA 47μF 25V	48

Ref No.	Parts No.	Description	Q'ty
C119, C129			
C155, C134			
C135, C137 × 4			
C107, C132	3469210141	CAP E RSA 100μF 25V	12
C106 × 4			
C110 × 4	3409247121	CAP E RSA 470μF 10V	4
C103, C104	3409247075	CAP E RSA 47μF 50V	12
C105 × 12			
C122 × 4	3409847030	CAP E NP 47μF 16V	4
C124 × 4	3609563120	CAP M 0.056μF 100V J	4
C123, C125 × 4	3609123120	CAP M 0.012μF 100V J	
C127 × 4	3609152120	CAP M 0.0015μF 100V J	4
C128 × 4	3609562120	CAP M 0.0056μF 100V J	4
C126 × 4	3609103120	CAP M 0.01μF 100V J	4
C112, C111 × 4	3509331130	CAP C 330P 50V J	8
C140, C101	3509101130	CAP C 100P 50V J	24
C102, C120			
C130, C136 × 4			
C121 × 4	3509150130	CAP C 15P 50V J	4
C113, C114 × 4	3509680130	CAP C 68P 50V J	8
C154, C131 × 4	3509470130	CAP C 47P 50V J	8
C133, C138 × 4	3509472130	CAP C 4700P 50V J	8
C108, C109	3509104130	CAP C 0.1μF 50V J	16
C151, C152 × 4			
C125 × 4	3509102130	CAP C 0.001μF 50V J	4
	2648699990	CHOCK COIL	8
LED101	2308999910	LED RED φ3	4
	3228095110	PUSH SW 5KEY 2CIRCUIT	4
	3228094810	PUSH SW 4KEY 2CIRCUIT	4
	3228095210	PUSH SW 1KEY 2CIRCUIT	4
	4355005010	WAFER LA 2P	8
	4428598230	WAFER LA 3P	16
	4428598270	WAFER LA 7P	8
	4428598250	WAFER LA 5P	4
	8543998710	PUSH KNOB (BLACK)	20
	8543998720	PUSH KNOB (WHITE)	4
	6505989210	PCB BRACKET	4
	8009130061	SCREW BM 3 × 6Y	8
	8329070011	WASHER THD 1Nφ7Y	32
	4115199120	CLIP LED WIRE	4
	4115199110	LINE TRIM WIRE	4
	4355974410	ASS'Y CONNECTOR PFL	4
4003513810 PFL B'D			
R13 × 16	3009152273	RES CF 1.5K 1/4W JN	16
R11 × 16	3009223273	RES CF 22K 1/4W JN	16
C11 × 16	3409247041	CAP E RSA 47μF 25V	16
LED1 × 16	2308999910	LED RED φ3	16
	3228094710	PUSH S/W 3KEY	
		2 CIRCUIT	16

Ref No.	Parts No.	Description	Q'ty
	4428598230	WAFER LA 3P	32
	4428598250	WAFER LA 5P	16
	8543998710	PUSH KNOB (BLACK)	16
	8543998720	PUSH KNOB (WHITE)	16
	8543998730	PUSH KNOB (YELLOW)	16
	4355974820	ASS'Y CONNECTOR MUTE	16
	4355974810	ASS'Y CONNECTOR PFL	15
PGM OUT B'D 4003514100			
Q201, Q205	2008606100	TR NPN 2SC 200(Y) KEC	12
Q209, Q213 × 3			
Q202, Q206	2008206999	TR PNP 2SA 200(Y) KEC	12
Q210, Q214 × 3			
Q204, Q207	2008606104	TR NPN KTC 1815(Y) KEC	12
Q211, Q215 × 3			
Q203, Q208	2008206105	TR PNP 2SA 1015(Y) KEC	12
Q212, Q216 × 3			
IC203	2168220110	IC 532D JRC	6
IC204 × 3			
IC201, 202	2168007110	IC TA 558 P	12
205, 206 × 3			
IC207 × 3	2138050984	IC KA 2281	3
D201, 202	2058306101	DIODE CDG 24	24
203, 204			
205, 206			
207, 208 × 3			
D209, D210 × 3	2058010100	DIODE 1N60	6
R217, R218	3009100273	RES CF 10 1/4W JN	36
R228, R229			
R262, R263			
R276, R277			
R255, R256			
R243, R244 × 3			
R207, R209	3009221273	RES CF 220 1/4W JN	12
R235, R236 × 3			
R206 × 3	3009101273	RES CF 100 1/4W JN	3
R299, R300	3009270273	RES CF 27 1/4W JN	12
R301, R302 × 3			
R265 × 3	3009471273	RES CF 470 1/4W JN	3
R260, R257	3009102273	RES CF 1K 1/4W JN	36
R245, R253			
R254, R227			
R226, R215			
R216, R242			
R279, R280 × 3			
R288, R289	3009152273	RES CF 1.5K 1/4W JN	30
R290, R291			
R292, R293			
R294, R295			
R296, R297 × 3			

Ref No.	Parts No.	Description	Q'ty
R213, R214	3009472273	RES CF 4.7K 1/4W JN	24
R224, R225			
R253, R25			
R240, R241 × 3			
R266 × 3	3009182273	RES CF 1.8K 1/4W JN	3
R284 × 3	3009682273	RES CF 6.8K 1/4W JN	3
R285 × 3	3009103273	RES CF 10K 1/4W JN	3
R237, R246	3009123273	RES CF 12K 1/4W JN	30
R247, R248			
R257, R230			
R220, R221			
R219, R210 × 3			
R201, R202	3009223273	RES CF 22K 1/4W JN	51
R203, R204			
R231, R232			
R233, R234			
R273, R274			
R275, R282			
R281, R269			
R270, R271			
R272 × 3			
R205, R286	3009473273	RES CF 47K 1/4W JN	9
R287 × 3			
R212, R237	3009153273	RES CF 15K 1/4W JN	24
R223, R249			
R250, R238			
R222, R223			
R211 × 3			
R283 × 3	3009683273	RES CF 68K 1/4W JN	3
R261, R259	3009104273	RES CF 100K 1/4W JN	21
R278, R298			
R258, R264			
R208 × 3			
R282 × 3	3009563273	RES CF 56K 1/4W JN	3
C207, C235 × 3	3409222971	CAP E RSA 2.2μF 50V	6
C216, C208 × 3	3409210071	CAP E RSA 10μF 50V	6
C213, C211	3409247041	CAP E RSA 47μF 25V	39
C220, C219			
C218, C217			
C209, C207			
C201, C203			
C205, C206			
C202 × 3			
C236, C237	3409247971	CAP E RSA 4.7μF 50V	15
C215, C214			
C238 × 3			
C204, C212 × 3	3409210141	CAP E RSA 100μF 25V	6
C223, C232	3509470130	CAP C 47P 50V J	12
C229, C228 × 3			
C233, C227	3509101130	CAP C 100P 50V J	27

Ref No.	Parts No.	Description	Q'ty
C230, C221			
C232, C226			
C225, C224			
C221 × 3			
VR203 × 3	3208026010	VRφ16 10KA × 1K20	3
VR202 × 3	3228099510	VRφ16 10KB × 2K20	3
VR201 × 3	3238002010	SL VR 60L 10KA × 1	3
	3228095010	PUSH S\W 5KEY 2CIRCUIT	3
	2648699990	CHOCK COIL	6
	4355005010	WAFER LA 2P	15
	4428598230	WAFER LA 3P	18
	4428598270	WAFER LA 7P	6
	4428598250	WAFER LA 5P	3
	8543998710	PUSH KNOB (BLACK)	6
	8543998720	PUSH KNOB (WHITE)	9
	6505989210	PCB BRACKET	3
	8009130061	SCREW BM 3 × 6Y	6
	8329070011	WASHER THD 1Nφ7Y	3

STEREO OUT B'D 4003513900

Q403, Q407	2008606100	TR NPN 2SC 200(Y) KEC	4
Q412, Q416			
Q404, Q408	2008206999	TR PNP 2SA 200(Y) KEC	4
Q413, Q417			
Q401, Q405	2008606104	TR NPN KTC 1815(Y) KEC	4
Q409, Q414			
Q402, Q406	2008206105	TR PNP 2SA 1015(Y) KEC	4
Q410, Q415			
IC403, IC404	2168220110	IC 5532D JRC	2
IC401, IC402	2168007110	IC TA 4558P	4
IC407, IC406			
IC405	2168220992	IC 2068D JR	1
D401, D402	2058306101	DIODE CDG 24	8
D403, D404			
D405, D406			
D407, D408			
D409, D410	2058010100	DIODE 1N60	4
D411, D412			
R418, R419	3009100273	RES CF 10 1/4W JN	12
R429, R430			
R431, R432			
R464, R465			
R452, R453			
R451, R452			
R408, R409	3009221273	RES CF 220 1/4W JN	4
R440, R442			
R407, R439	3009101273	RES CF 100 1/4W JN	2
R487, R489	3009270273	RES CF 27 1/4W JN	6
R471, R472			
R437, R405			

Ref No.	Parts No.	Description	Q'ty
R416, R417	3009102273	RES CF 1K 1/4W JN	12
R427, R428			
R460, R461			
R449, R450			
R482, R485			
R490, R491			
R476	3009122273	RES CF 1.2K 1/4W JN	1
R467, R468	3009472273	RES CF 4.7K 1/4W JN	10
R447, R448			
R458, R459			
R425, R426			
R414, R415			
R410, R411	3009123273	RES CF 12K 1/4W JN	11
R420, R421			
R422, R454			
R455, R453			
R444, R443			
R477			
R401, R402	3009223273	RES CF 22K 1/4W JN	15
R403, R433			
R435, R497			
R496, R495			
R492			
R493, R501			
R500, R499			
R498, R434			
R473, R406	3009473273	RES CF 47K 1/4W JN	5
R436, R404			
R438			
R445, R446	3009153273	RES CF 15K 1/4W JN	8
R456, R457			
R412, R413			
R423, R424			
R486, R484	3009104273	RES CF 100K 1/4W JN	9
R483, R475			
R474, R480			
R478, R441			
R466			
R470, R469	3009154273	RES CF 150K 1/4W JN	2
C444, C445	3409247971	CAP E RSA 4.7μF 50V	6
C429, C430			
C413, C403			
C435, C437	3409222971	CAP E RSA 2.2μF 50V	2
C441, C443	3409247041	CAP E RSA 47μF 25V	19
C440, C442			
C434, C431			
C425, C426			
C438, C436			
C402, C404			
C405, C409			

Ref No.	Parts No.	Description	Q'ty
C423, C419			
C412, C418			
C432			
C422, C408	3409210141	CAP E RSA 100μF 25V	2
C428, C407	3509220130	CAP C 22P 50V J	2
C433, C417	3509470130	CAP C 47P 50V J	5
C415, C414			
C416			
C439, C411	3509101130	CAP C 100P 50V J	9
C420, C421			
C424, C401			
C406, C407			
C410			
SVR401	3208026010	VRφ16 10KA × 1K20	1
VR402	3228099510	VRφ16 10KB × 2K20	1
SVR403	3238002010	SL VR 60L 10KA × 1	1
	3228095210	PUSH SW 1KEY 2CIRCUIT	1
	3228095010	PUSH SW 5KEY 2CIRCUIT	1
	2648699990	CHOCK COIL	2
	4355005010	WAFER LA 2P	5
	4428598270	WAFER LA 7P	2
	4428598230	WAFER LA 3P	9
	4428598750	WAFER LA 6P	1
	8543998710	PUSH KNOB (BLACK)	2
	8543998720	PUSH KNOB (WHITE)	4
	6505989210	PCB BRACKET	1
	8009130061	SCREW BM 3 × 6Y	2
	8329070011	WASHER THD 1Nφ7Y	1

MONITOR B'D 4003513920

Q505, Q503	2008606100	TR NPN 2SC 200(Y) KEC	3
Q509			
Q506, Q504	2008206999	TR PNP 2SA 200(Y) KEC	2
Q501, Q502	2008610102	TR NPN 2SD 1302 MATSU	2
Q507, Q508	2008606104	TR NPN KTC 1815(Y) KEC	2
IC504	2168220110	IC 5532D JRC	1
IC501, IC502	2168007110	IC TA 4558	4
IC503, IC505			
D508	2058106100	DIODE 1N4002	1
D501, D502	2058306101	DIODE CDG 24	4
D503, D504			
R543, R547	3009100273	RES CF 10 1/4W JN	6
R513, R514			
R537, R538			
R503, R506	3009181273	RES CF 180 1/4W JN	2
R509, R533	3009102273	RES CF 1K 1/4W JN	2
R555, R511	3009153273	RES CF 15K 1/4W JN	5
R512, R535			
R536			
R534, R510	3009273273	RES CF 27K 1/4W JN	2

Ref No.	Parts No.	Description	Q'ty
R554, R542	3009103273	RES CF 10K 1/4W JN	12
R541, R545			
R546, R517			
R520, R519			
R504, R502			
R505, R556			
R549, R548	3009223273	RES CF 22K 1/4W JN	5
R550, R530			
R506			
R551, R531	3009473273	RES CF 47K 1/4W JN	3
R507			
R544, R540	3009104273	RES CF 100K 1/4W JN	6
R516, R501			
R508, R532			
R553	3009155273	RES CF 1.5M 1/4W JN	1
R515, R539	3039210142	RES MO 100 1W J	2
R552	3009184273	RES CF 180K 1/4W JN	1
C507, C521	3409247041	CAP E RSA 47μF 25V	12
C501, C522			
C503, C504			
C510, C525			
C503, C513			
C516, C522			
C523, C515	3409210141	CAP E RSA 100μF 25V	5
C518, C512			
C506			
C517, C520	3509470130	CAP C 47P 50V J	6
C514, C517			
C508, C502			
C511, C505	3509220130	CAP C 22P 50V J	2
	5528009960	RELAY 12W TAKAMISAWA	1
VR501, 502	3208098410	VRφ16 10KA × 2K20	2
	4438001110	PHONE JACK	1
	3228094510	PUSH SW 5KEY 2C GR TYPE	1
	4355005010	WAFER LA 2P	5
	4428598230	WAFER LA 3P	2
	4428598270	WAFER LA 4P	1
	4428598250	WAFER LA 5P	2
	8543998710	PUSH KNOB (BLACK)	2
	8543998720	PUSH KNOB (WHITE)	3
	4355973210	CONNECTOR LED METER	1

OSC B'D 4003513910

Q601, Q605	2008606100	TR NPN 2SC 200(Y) KEC	2
Q602, Q606	2008206999	TR PNP 2SA 200(Y) KEC	2
Q604, Q607	2008606104	TR NPN KTC 1815(Y) KEC	2
Q603, Q606	2008206105	TR PNP 2SA 1015(Y) KEC	2
IC602	2168220110	IC 5532D JRC	1
IC601, IC603	2168007110	IC TA 4558	3

Ref No.	Parts No.	Description	Q'ty
IC604			
D603, D604	2058306101	DIODE CDG 24	4
D605, D606			
D601, D602	2058010100	DIODE 1N60	4
D607, D608			
R652, R653	3009100273	RES CF 10 1/4W JN	6
R664, R665			
R666, R665			
R641, R642	3009221273	RES CF 220 1/4W JN	2
R605, R608	3009560273	RES CF 560 1/4W JN	2
R622, R631	3009270273	RES CF 27 1/4W JN	4
R639, R638			
R637	3009101273	RES CF 100 1/4W JN	1
R623	3009471273	RES CF 470 1/4W JN	1
R620, R619	3009102273	RES CF 1K 1/4W JN	7
R613, R661			
R660, R648			
R649			
R650, R657	3009472273	RES CF 4.7K 1/4W JN	4
R662, R663			
R604, R612	3009562273	RES CF 5.6K 1/4W JN	2
R669	3009182273	RES CF 1.8K 1/4W JN	1
R603	3009152273	RES CF 1.5K 1/4W JN	1
R602	3009222273	RES CF 2.2K 1/4W JN	1
R601	3009103273	RES CF 10K 1/4W JN	1
R644, R645	3009123273	RES CF 12K 1/4W JN	5
R654, R656			
R657			
R628, R629	3009223273	RES CF 22K 1/4W JN	16
R630, R620			
R621, R622			
R624, R625			
R626, R627			
R633, R635			
R634, R636			
R615, R616			
R640	3009473273	RES CF 47K 1/4W JN	1
R646, R647	3009153273	RES CF 15K 1/4W JN	4
R658, R659			
R609, R606	3009563273	RES CF 56K 1/4W JN	2
R614, R618	3009104273	RES CF 100K 1/4W JN	4
R667, R643			
R610, R607	3009124273	RES CF 120K 1/4W JN	2
SVR601	3248347220	RES SEMI 4.7KB 10/5	1
C624	3409210071	CAP E RSA 10μF 50V	1
C608, C613	3409247971	CAP E RSA 4.7μF 50V	4
C607, C614			
C605, C604	3409247041	CAP E RSA 47μF 25V	9
C603, C610			
C615, C616			

Ref No.	Parts No.	Description	Q'ty
C620, C622			
C623			
C618	3409210141	CAP E RSA 100μF 25V	1
C602, C601	3609332120	CAP M 0.0033μF 100V J	2
C606, C611	3509470130	CAP C47P 50V J	3
C612			
C609, C617	3509101130	CAP C100P 50V J	4
C619, C621			
	2648699990	CHOCK COIL	1
VR601	3208026010	VRφ16 10KA × 1K20	1
VR602	3228099510	VRφ16 10KB × 2K20	1
	3228094910	PUSH SW 4KEY 2CIRCUIT	1
	3228095010	PUSH SW 5KEY 2CIRCUIT	1
	4355005010	WAFER LA 2P	3
	4428598230	WAFER LA 3P	5
	4428598270	WAFER LA 7P	2
	4428598750	WAFER LA 6P	1
	4428502510	WAFER LW 3P	1
	6505989210	PCB BRACKET	2
	8009130061	SCREW BM 3 × 6Y	4
	8543998710	PUSH KNOB (BLACK)	5
	8543998720	PUSH KNOB (WHITE)	4

METER A.D.J. B'D 4003513930

SVR21	3248310220	RES SEMI 1KΩ 1/4W 10/5	
SVR22, SVR23			

Ref No.	Parts No.	Description	Q'ty
SVR24, SVR26			
SVR25, SVR27			
R22, R211	3009182273	RES CF 1.8K 1/4W JN	3
R24			
D21, D22	2058010100	DIODE 1N60	2
R23	300922273	RES CF 2.2K 1/4W JN	1
C24	3409222971	CAP E RSA 2.2μF 50V	1
C23, C21	3409210071	CAP E RSA 10μF 50V	3
C22			

LED B'D 4003514010

	2308220155	LED RED SLB-55 ROHM	9
	2308220355	LED GREEN SLB-55 ROHM	18
	2308220555	LED YELLOW SLB-55 ROHM	3
	6165198110	PCB FIXED BRACKET	3

MATCHING TRANSFORMER B'D

	4003513940	MATCHING TRANSFORMER PCB	1
	2818097800	MATCHING TRANSFORMER	2
	4428501010	WAFER LW 2P	2
	4428502510	WAFER LW 3P	2
	8009130061	SCREW 3 × 6Y	4

Parts List According to Exploded View

NO.	DESCRIPTION	PARTS NO.	Q'TY	REMARK
1	METER PANEL	046122296901	1	
2	METER WINDOW	8575998410	7	
3	METER	5328001130	7	
4	METER BRACKET	6505991610	7	
5	PCB BRACKET	6505991310	2	
6	METER SIDE WOOD	6125499910	2	
7	METER SIDE BRACKET "L"	6505991710	1	
8	METER SIDE BRACKET "R"	6505991720	1	
9	METER POST	046535998810	2	
10	METER BACK PANEL	046102993501	1	
11	WIRE RUBBER PACKING	6715996910	1	
12	WIRE CLAMP	6525099910	1	
13	SCREW	8109330083	22	*3BTC 3 × 8B
14	SCREW	8009140353	4	BM 4 × 35B
15	SCREW	8129330083	4	*3FTC 3 × 8B
16	SCREW	8019126063	16	PM 2.6 × 6B
17	SCREW	8009140083	2	BM 4 × 8B
18	SCREW	8009130153	44	BM 3 × 15B
19	SCREW	8009130103	3	BM 3 × 10B
20	NUT M3	8209130011	2	
21	BACK PANEL	046101999201	1	
22	METER SUPPORT	046535998910	1	
23	PHONE JACK (STEREO)	4438098310	22	
24	PHONE JACK (MONO)	4438000120	16	
25	CANON JACK	4358999610	16	
26	CANON JACK	4358999510	11	
27	RCA JACK 4P	4438098210	1	
28	SYSTEM GND	4463100210	1	
29	ASS'Y METER RECEPTANCLE	4448999010	1	
30	ASS'Y POWER RECEPTANCLE	4448998910	1	
31	ASS'Y FRONT PAD	058601998810	1	
32	SCREW	8129230101	20	*2FTC 3 × 10Y
33	SCREW	8129230143	14	*2FTC 3 × 14B
34	SCREW	8039130084	54	RF 3 × 8N
35	SLIDE SPONGE	6735996710	1	
36	SLIDE VR	3228094610	22	
37	SCREW	8009130124	8	BM 3 × 12N
38	FRONT PAD BRACKET "R"	6505989120	1	

NO.	DESCRIPTION	PARTS NO.	Q'TY	REMARK
39	FRONT PAD BRACKET "L"	6505989110	1	
40	SIDE FRAME "L"	046121698320	1	
41	SIDE FRAME "R"	046121698310	1	
42	SIDE WOOD "R"	6121499820	1	
43	SIDE WOOD "L"	6121499810	1	
44	INSULATION PLATE	6705998910	1	
45	STUD	6535001360	4	
46	WASHER CABINET	6305000520	6	
47	SCREW	8009140383	6	BM 4 × 38B
48	SCREW	8009140101	6	BM 4 × 10Y
49	SCREW	8009130061	8	BM 3 × 6Y
50	BOTTOM COVER	046122493710	1	
51	SCREW	8109230123	14	*2BTC 3 × 12B
52	RUBBER FOOT	6335000610	4	
53	SCREW	8109330141	4	*3BTC 3 × 14Y
54	BOTTOM HOLE COVER	046503991810	1	
55	SLIDE SPONGE	6735996810	5	
56	INPUT LINE PANEL	048601999001	3	
57	INPUT PHONO PANEL	048601999021	1	
58	OUTPUT PANEL	048601998901	1	
59	DISPLAY WINDOW	048575998621	1	
60	PUSH KNOB	048543998731	16	YELLOW
61	PUSH KNOB	048543998701	111	BLACK
62	PUSH KNOB	048543998721	116	GRAY
63	CONTROL KNOB	058542999911	21	K: GRAY, C: RED
64	CONTROL KNOB	058542999925	48	K: BLACK, C: GREEN
65	CONTROL KNOB	058542999914	32	K: GRAY, C: VIOLET
66	CONTROL KNOB	058542999912	32	K: GRAY, C: BLUE
67	CONTROL KNOB	058542999923	20	K: BLACK, C: YELLOW
68	CONTROL KNOB	058542999924	1	K: BLACK, C: VIOLET
69	SLIDE KNOB	048542999801	4	GRAY
70	REAR DECORATION PLATE	048633999001	1	
71	FRONT DECORATION PLATE	048633999801	1	
72	SLIDE KNOB	048542999701	16	BLACK
73	SLIDE KNOB	048542999721	4	RED
74	SCREW	8009140083	2	BM 4 × 8B
75	SCREW	8009140103	10	BM 4 × 10B

Ref No.	Parts No.	Description	Q'ty
R416, R417	3009102273	RES CF 1K 1/4W JN	12
R427, R428			
R460, R461			
R449, R450			
R482, R485			
R490, R491			
R476	3009122273	RES CF 1.2K 1/4W JN	1
R467, R468	3009472273	RES CF 4.7K 1/4W JN	10
R447, R448			
R458, R459			
R425, R426			
R414, R415			
R410, R411	3009123273	RES CF 12K 1/4W JN	11
R420, R421			
R422, R454			
R455, R453			
R444, R443			
R477			
R401, R402	3009223273	RES CF 22K 1/4W JN	15
R403, R433			
R435, R497			
R496, R495			
R492			
R493, R501			
R500, R499			
R498, R434			
R473, R406	3009473273	RES CF 47K 1/4W JN	5
R436, R404			
R438			
R445, R446	3009153273	RES CF 15K 1/4W JN	8
R456, R457			
R412, R413			
R423, R424			
R486, R484	3009104273	RES CF 100K 1/4W JN	9
R483, R475			
R474, R480			
R478, R441			
R466			
R470, R469	3009154273	RES CF 150K 1/4W JN	2
C444, C445	3409247971	CAP E RSA 4.7μF 50V	6
C429, C430			
C413, C403			
C435, C437	3409222971	CAP E RSA 2.2μF 50V	2
C441, C443	3409247041	CAP E RSA 47μF 25V	19
C440, C442			
C434, C431			
C425, C426			
C438, C436			
C402, C404			
C405, C409			

Ref No.	Parts No.	Description	Q'ty
C423, C419			
C412, C418			
C432			
C422, C408	3409210141	CAP E RSA 100μF 25V	2
C428, C407	3509220130	CAP C 22P 50V J	2
C433, C417	3509470130	CAP C 47P 50V J	5
C415, C414			
C416			
C439, C411	3509101130	CAP C 100P 50V J	9
C420, C421			
C424, C401			
C406, C407			
C410			
SVR401	3208026010	VRϕ16 10KA × 1K20	1
VR402	3228099510	VRϕ16 10KB × 2K20	1
SVR403	3238002010	SL VR 60L 10KA × 1	1
	3228095210	PUSH SW 1KEY 2CIRCUIT	1
	3228095010	PUSH SW 5KEY 2CIRCUIT	1
	2648699990	CHOCK COIL	2
	4355005010	WAFER LA 2P	5
	4428598270	WAFER LA 7P	2
	4428598230	WAFER LA 3P	9
	4428598750	WAFER LA 6P	1
	8543998710	PUSH KNOB (BLACK)	2
	8543998720	PUSH KNOB (WHITE)	4
	6505989210	PCB BRACKET	1
	8009130061	SCREW BM 3 × 6Y	2
	8329070011	WASHER THD 1Nϕ7Y	1

MONITOR B'D 4003513920

Q505, Q503	2008606100	TR NPN 2SC 200(Y) KEC	3
Q509			
Q506, Q504	2008206999	TR PNP 2SA 200(Y) KEC	2
Q501, Q502	2008610102	TR NPN 2SD 1302 MATSU	2
Q507, Q508	2008606104	TR NPN KTC 1815(Y) KEC	2
IC504	2168220110	IC 5532D JRC	1
IC501, IC502	2168007110	IC TA 4558	4
IC503, IC505			
D508	2058106100	DIODE 1N4002	1
D501, D502	2058306101	DIODE CDG 24	4
D503, D504			
R543, R547	3009100273	RES CF 10 1/4W JN	6
R513, R514			
R537, R538			
R503, R506	3009181273	RES CF 180 1/4W JN	2
R509, R533	3009102273	RES CF 1K 1/4W JN	2
R555, R511	3009153273	RES CF 15K 1/4W JN	5
R512, R535			
R536			
R534, R510	3009273273	RES CF 27K 1/4W JN	2

Ref No.	Parts No.	Description	Q'ty
R554, R542	3009103273	RES CF 10K 1/4W JN	12
R541, R545			
R546, R517			
R520, R519			
R504, R502			
R505, R556			
R549, R548	3009223273	RES CF 22K 1/4W JN	5
R550, R530			
R506			
R551, R531	3009473273	RES CF 47K 1/4W JN	3
R507			
R544, R540	3009104273	RES CF 100K 1/4W JN	6
R516, R501			
R508, R532			
R553	3009155273	RES CF 1.5M 1/4W JN	1
R515, R539	3039210142	RES MO 100 1W J	2
R552	3009184273	RES CF 180K 1/4W JN	1
C507, C521	3409247041	CAP E RSA 47μF 25V	12
C501, C522			
C503, C504			
C510, C525			
C503, C513			
C516, C522			
C523, C515	3409210141	CAP E RSA 100μF 25V	5
C518, C512			
C506			
C517, C520	3509470130	CAP C 47P 50V J	6
C514, C517			
C508, C502			
C511, C505	3509220130	CAP C 22P 50V J	2
	5528009960	RELAY 12W TAKAMISAWA	1
VR501, 502	3208098410	VRϕ16 10KA × 2K20	2
	4438001110	PHONE JACK	1
	3228094510	PUSH SW 5KEY 2C GR TYPE	1
	4355005010	WAFER LA 2P	5
	4428598230	WAFER LA 3P	2
	4428598270	WAFER LA 4P	1
	4428598250	WAFER LA 5P	2
	8543998710	PUSH KNOB (BLACK)	2
	8543998720	PUSH KNOB (WHITE)	3
	4355973210	CONNECTOR LED METER	1

OSC B'D 4003513910

Q601, Q605	2008606100	TR NPN 2SC 200(Y) KEC	2
Q602, Q606	2008206999	TR PNP 2SA 200(Y) KEC	2
Q604, Q607	2008606104	TR NPN KTC 1815(Y) KEC	2
Q603, Q606	2008206105	TR PNP 2SA 1015(Y) KEC	2
IC602	2168220110	IC 5532D JRC	1
IC601, IC603	2168007110	IC TA 4558	3

Ref No.	Parts No.	Description	Q'ty
IC604			
D603, D604	2058306101	DIODE CDG 24	4
D605, D606			
D601, D602	2058010100	DIODE 1N60	4
D607, D608			
R652, R653	3009100273	RES CF 10 1/4W JN	6
R664, R665			
R666, R665			
R641, R642	3009221273	RES CF 220 1/4W JN	2
R605, R608	3009560273	RES CF 560 1/4W JN	2
R622, R631	3009270273	RES CF 27 1/4W JN	4
R639, R638			
R637	3009101273	RES CF 100 1/4W JN	1
R623	3009471273	RES CF 470 1/4W JN	1
R620, R619	3009102273	RES CF 1K 1/4W JN	7
R613, R661			
R660, R648			
R649			
R650, R657	3009472273	RES CF 4.7K 1/4W JN	4
R662, R663			
R604, R612	3009562273	RES CF 5.6K 1/4W JN	2
R669	3009182273	RES CF 1.8K 1/4W JN	1
R603	3009152273	RES CF 1.5K 1/4W JN	1
R602	3009222273	RES CF 2.2K 1/4W JN	1
R601	3009103273	RES CF 10K 1/4W JN	1
R644, R645	3009123273	RES CF 12K 1/4W JN	5
R654, R656			
R657			
R628, R629	3009223273	RES CF 22K 1/4W JN	16
R630, R620			
R621, R622			
R624, R625			
R626, R627			
R633, R635			
R634, R636			
R615, R616			
R640	3009473273	RES CF 47K 1/4W JN	1
R646, R647	3009153273	RES CF 15K 1/4W JN	4
R658, R659			
R609, R606	3009563273	RES CF 56K 1/4W JN	2
R614, R618	3009104273	RES CF 100K 1/4W JN	4
R667, R643			
R610, R607	3009124273	RES CF 120K 1/4W JN	2
SVR601	3248347220	RES SEMI 4.7KB 10/5	1
C624	3409210071	CAP E RSA 10μF 50V	1
C608, C613	3409247971	CAP E RSA 4.7μF 50V	4
C607, C614			
C605, C604	3409247041	CAP E RSA 47μF 25V	9
C603, C610			
C615, C616			

Ref No.	Parts No.	Description	Q'ty
C620, C622			
C623			
C618	3409210141	CAP E RSA 100μF 25V	1
C602, C601	3609332120	CAP M 0.0033μF 100V J	2
C606, C611	3509470130	CAP C47P 50V J	3
C612			
C609, C617	3509101130	CAP C100P 50V J	4
C619, C621			
	2648699990	CHOCK COIL	1
VR601	3208026010	VRφ16 10KA × 1K20	1
VR602	3228099510	VRφ16 10KB × 2K20	1
	3228094910	PUSH SW 4KEY 2CIRCUIT	1
	3228095010	PUSH SW 5KEY 2CIRCUIT	1
	4355005010	WAFER LA 2P	3
	4428598230	WAFER LA 3P	5
	4428598270	WAFER LA 7P	2
	4428598750	WAFER LA 6P	1
	4428502510	WAFER LW 3P	1
	6505989210	PCB BRACKET	2
	8009130061	SCREW BM 3 × 6Y	4
	8543998710	PUSH KNOB (BLACK)	5
	8543998720	PUSH KNOB (WHITE)	4

METER A.D.J. B'D 4003513930

SVR21 SVR22, SVR23	3248310220	RES SEMI 1KΩ 1/4W 10/5	

Ref No.	Parts No.	Description	Q'ty
SVR24, SVR26 SVR25, SVR27			
R22, R211	3009182273	RES CF 1.8K 1/4W JN	3
R24			
D21, D22	2058010100	DIODE 1N60	2
R23	3009222273	RES CF 2.2K 1/4W JN	1
C24	3409222971	CAP E RSA 2.2μF 50V	1
C23, C21	3409210071	CAP E RSA 10μF 50V	3
C22			

LED B'D 4003514010

	2308220155	LED RED SLB-55 ROHM	9
	2308220355	LED GREEN SLB-55 ROHM	18
	2308220555	LED YELLOW SLB-55 ROHM	3
	6165198110	PCB FIXED BRACKET	3

MATCHING TRANSFORMER B'D

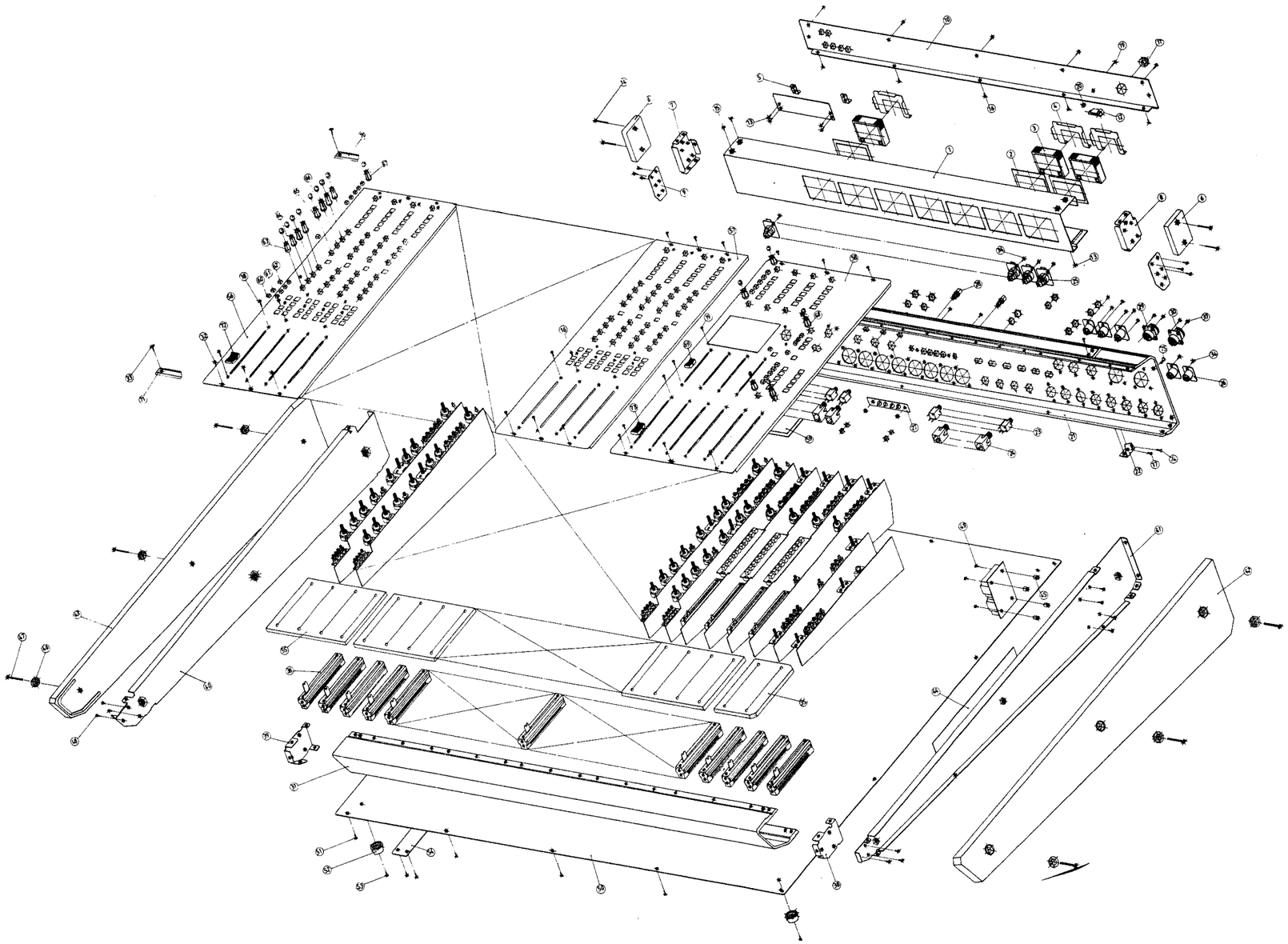
	4003513940	MATCHING TRANSFORMER PCB	1
	2818097800	MATCHING TRANSFORMER	2
	4428501010	WAFER LW 2P	2
	4428502510	WAFER LW 3P	2
	8009130061	SCREW 3 × 6Y	4

Parts List According to Exploded View

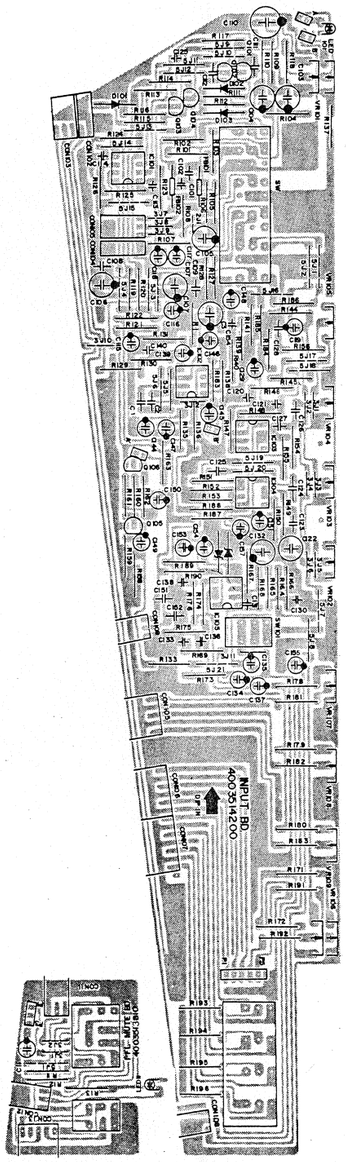
NO.	DESCRIPTION	PARTS NO.	Q'TY	REMARK
1	METER PANEL	046122296901	1	
2	METER WINDOW	8575998410	7	
3	METER	5328001130	7	
4	METER BRACKET	6505991610	7	
5	PCB BRACKET	6505991310	2	
6	METER SIDE WOOD	6125499910	2	
7	METER SIDE BRACKET "L"	6505991710	1	
8	METER SIDE BRACKET "R"	6505991720	1	
9	METER POST	046535998810	2	
10	METER BACK PANEL	046102993501	1	
11	WIRE RUBBER PACKING	6715996910	1	
12	WIRE CLAMP	6525099910	1	
13	SCREW	8109330083	22	*3BTC 3 × 8B
14	SCREW	8009140353	4	BM 4 × 35B
15	SCREW	8129330083	4	*3FTC 3 × 8B
16	SCREW	8019126063	16	PM 2.6 × 6B
17	SCREW	8009140083	2	BM 4 × 8B
18	SCREW	8009130153	44	BM 3 × 15B
19	SCREW	8009130103	3	BM 3 × 10B
20	NUT M3	8209130011	2	
21	BACK PANEL	046101999201	1	
22	METER SUPPORT	046535998910	1	
23	PHONE JACK (STEREO)	4438098310	22	
24	PHONE JACK (MONO)	4438000120	16	
25	CANON JACK	4358999610	16	
26	CANON JACK	4358999510	11	
27	RCA JACK 4P	4438098210	1	
28	SYSTEM GND	4463100210	1	
29	ASS'Y METER RECEPTANCLE	4448999010	1	
30	ASS'Y POWER RECEPTANCLE	4448998910	1	
31	ASS'Y FRONT PAD	058601998810	1	
32	SCREW	8129230101	20	*2FTC 3 × 10Y
33	SCREW	8129230143	14	*2FTC 3 × 14B
34	SCREW	8039130084	54	RF 3 × 8N
35	SLIDE SPONGE	6735996710	1	
36	SLIDE VR	3228094610	22	
37	SCREW	8009130124	8	BM 3 × 12N
38	FRONT PAD BRACKET "R"	6505989120	1	

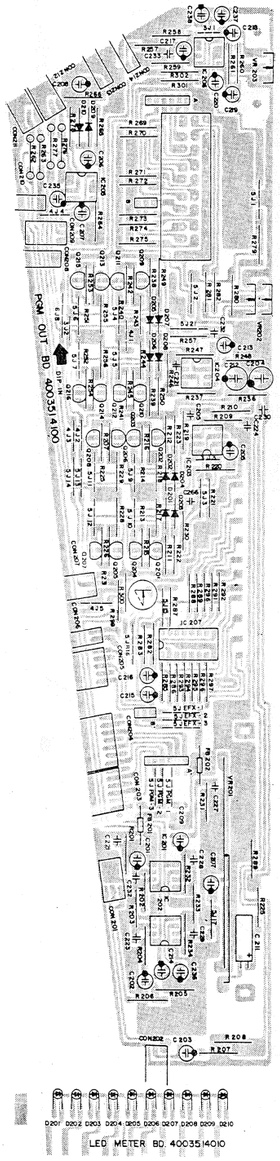
NO.	DESCRIPTION	PARTS NO.	Q'TY	REMARK
39	FRONT PAD BRACKET "L"	6505989110	1	
40	SIDE FRAME "L"	046121698320	1	
41	SIDE FRAME "R"	046121698310	1	
42	SIDE WOOD "R"	6121499820	1	
43	SIDE WOOD "L"	6121499810	1	
44	INSULATION PLATE	6705998910	1	
45	STUD	6535001360	4	
46	WASHER CABINET	6305000520	6	
47	SCREW	8009140383	6	BM 4 × 38B
48	SCREW	8009140101	6	BM 4 × 10Y
49	SCREW	8009130061	8	BM 3 × 6Y
50	BOTTOM COVER	046122493710	1	
51	SCREW	8109230123	14	*2BTC 3 × 12B
52	RUBBER FOOT	6335000610	4	
53	SCREW	8109330141	4	*3BTC 3 × 14Y
54	BOTTOM HOLE COVER	046503991810	1	
55	SLIDE SPONGE	6735996810	5	
56	INPUT LINE PANEL	048601999001	3	
57	INPUT PHONO PANEL	048601999021	1	
58	OUTPUT PANEL	048601998901	1	
59	DISPLAY WINDOW	048575998621	1	
60	PUSH KNOB	048543998731	16	YELLOW
61	PUSH KNOB	048543998701	111	BLACK
62	PUSH KNOB	048543998721	116	GRAY
63	CONTROL KNOB	058542999911	21	K: GRAY, C: RED
64	CONTROL KNOB	058542999925	48	K: BLACK, C: GREEN
65	CONTROL KNOB	058542999914	32	K: GRAY, C: VIOLET
66	CONTROL KNOB	058542999912	32	K: GRAY, C: BLUE
67	CONTROL KNOB	058542999923	20	K: BLACK, C: YELLOW
68	CONTROL KNOB	058542999924	1	K: BLACK, C: VIOLET
69	SLIDE KNOB	048542999801	4	GRAY
70	REAR DECORATION PLATE	048633999901	1	
71	FRONT DECORATION PLATE	048633999801	1	
72	SLIDE KNOB	048542999701	16	BLACK
73	SLIDE KNOB	048542999721	4	RED
74	SCREW	8009140083	2	BM 4 × 8B
75	SCREW	8009140103	10	BM 4 × 10B

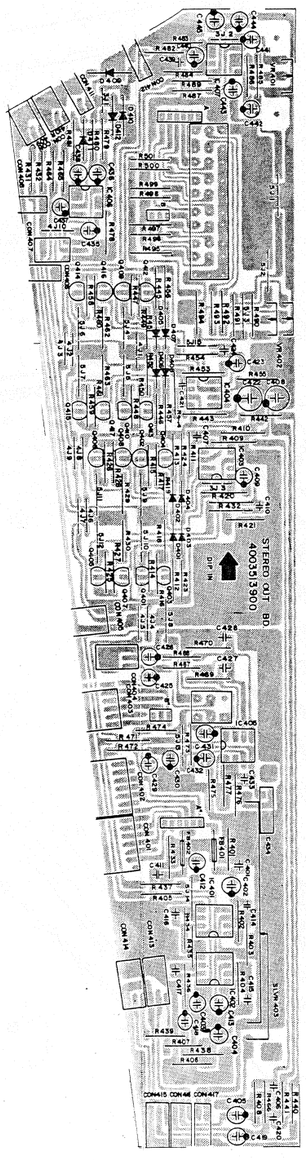
Exploded View of Cabinet & Chassis

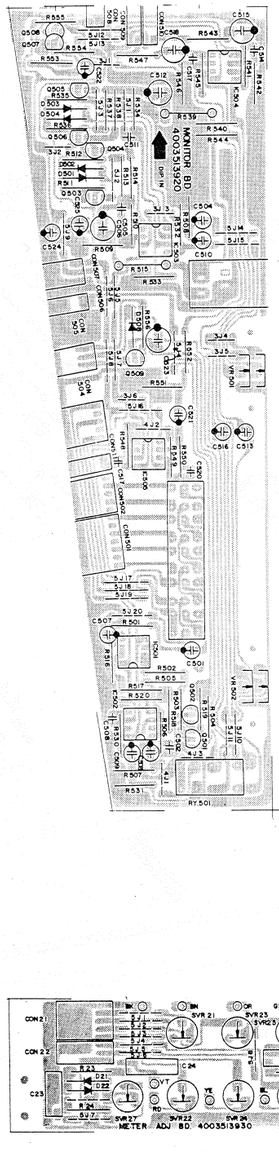


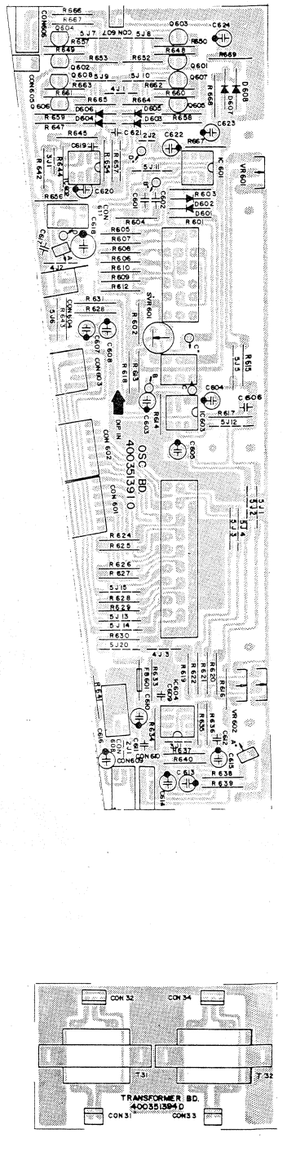
Top View of P.C.Boards

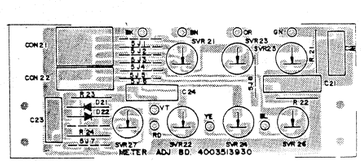




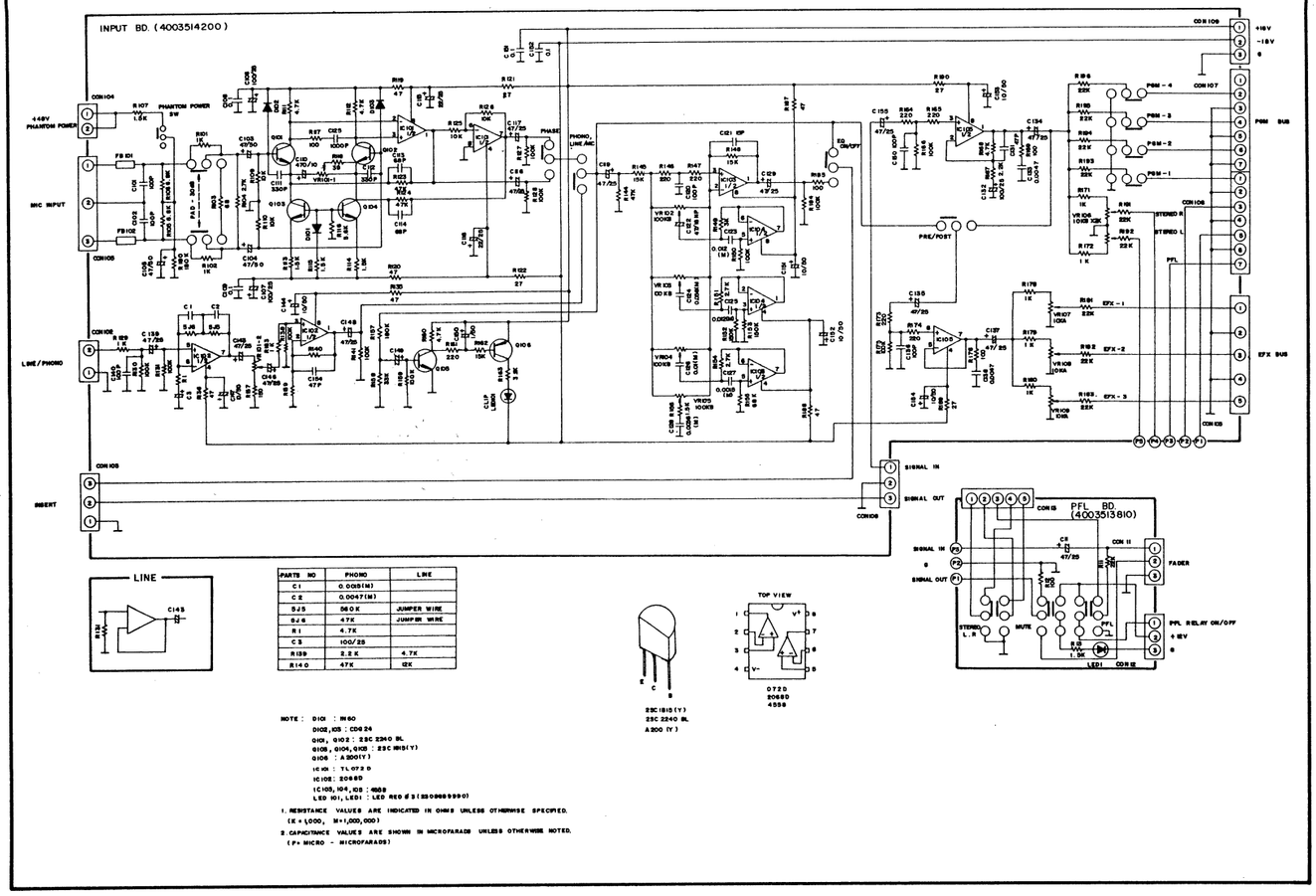








Input B'd Schematic Diagram

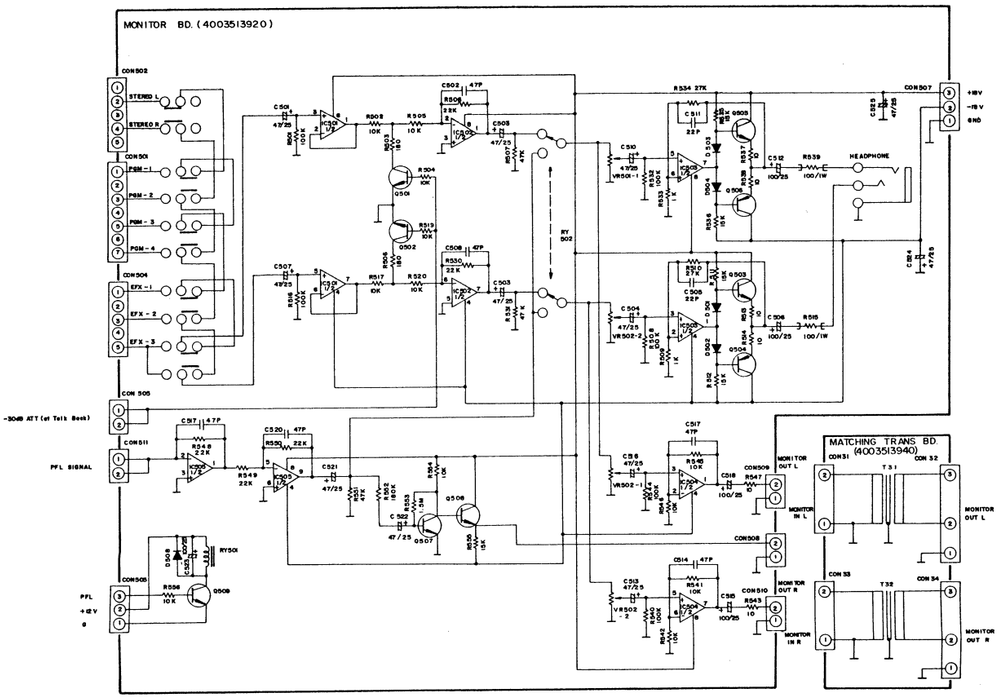


PARTS NO	PHONO	LINE
C1	0.0015(M)	
C2	0.0047(M)	
SJ5	560K	JUMPER WIRE
SJ6	47K	JUMPER WIRE
R1	4.7K	
C3	100/25	
R139	2.2K	4.7K
R140	47K	12K

NOTE : D101 : IN60
D102,103 : CDH24
Q101, Q102 : 2SC2240 BL
Q105, Q104, Q105 : 2SC1815(Y)
Q106 : A200(Y)
IC101 : TL072P
IC102 : 2068D
IC103, 104, 105 : 4558
LED 101, LED1 : LED RED d 3 (3309889990)

1. RESISTANCE VALUES ARE INDICATED IN OHMS UNLESS OTHERWISE SPECIFIED. (K = 1,000, M = 1,000,000)
2. CAPACITANCE VALUES ARE SHOWN IN MICROFARADS UNLESS OTHERWISE NOTED. (P = MICRO - MICROFARADS)

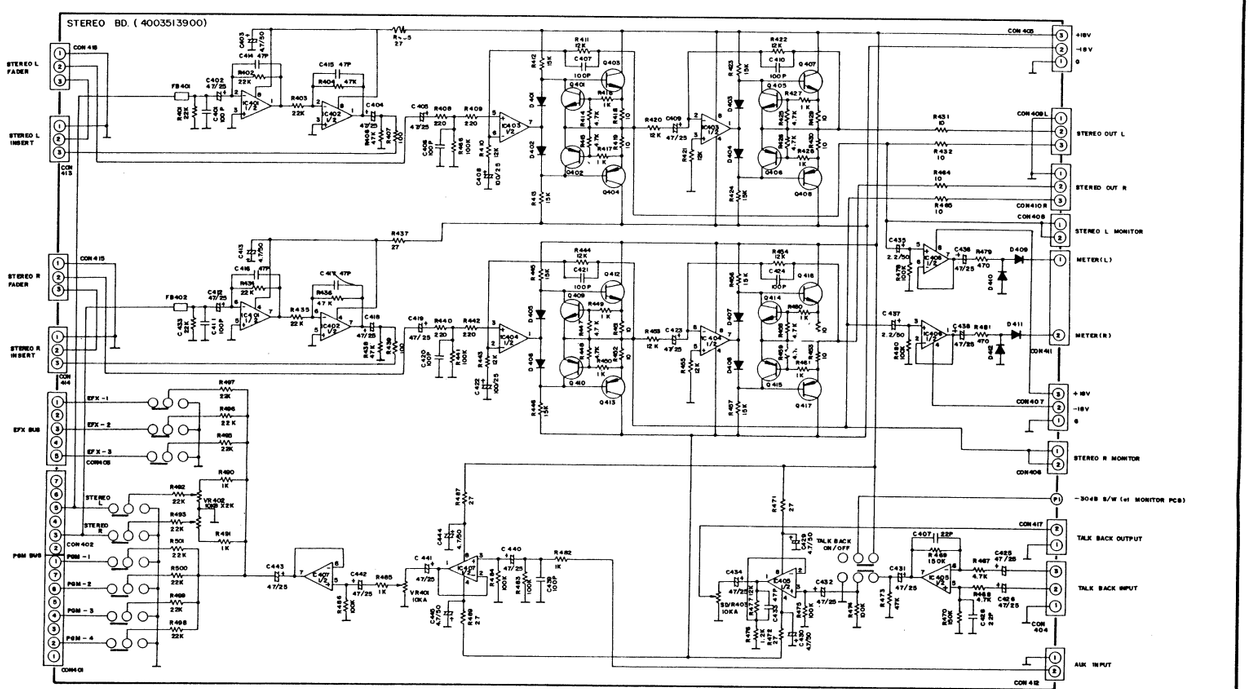
Monitor B'd Schematic Diagram



NOTE : Q507, Q508 : 2SC1815(Y)
Q509, Q503, Q509 : 2SC 200(Y)
Q508, Q504 : 2SA 200(Y)
Q501, Q502 : 2SD1302R
IC 501 - 503, IC 505 : IC 4558
IC 504 : IC 5532
RY 501 : RELAY 12W TAKAMISAWA
T31, T32 : MATCHING TRANSFORMER (2#8097800)
VR 501 (1, 2), VR 502 (1, 2) : 10KA X 2K
D501 - 504 : CDH 24
D505 : IN 4001

1. RESISTANCE VALUES ARE INDICATED IN OHMS UNLESS OTHERWISE SPECIFIED. (K = 1,000, M = 1,000,000)
2. CAPACITANCE VALUES ARE SHOWN IN MICROFARADS UNLESS OTHERWISE NOTED. (P = MICRO - MICROFARADS)
3. THE -⊳WW⊲- MARKED RESISTORS ARE MOUNTED THE P.C.B ON SLEEVES.

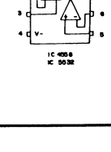
Stereo B'd Schematic Diagram



NOTE : IC 401 , IC402, IC 407, IC 408 : IC4558
IC 405 : IC 2068
IC 403 , IC 404 : IC 5532D
Q 403, Q 407, Q 412, Q 416 : 2SC 2001(Y)
Q 404, Q 408, Q 413, Q 417 : 2SA 2001(Y)
Q 401 , Q 405, Q 409, Q 414 : 2SC 1815(Y)
Q 402, Q 406, Q 410 , Q 415 : 2SA 1015(Y)
D 401 - D 408 : CD 824
D 409 - D 412 : IN 60

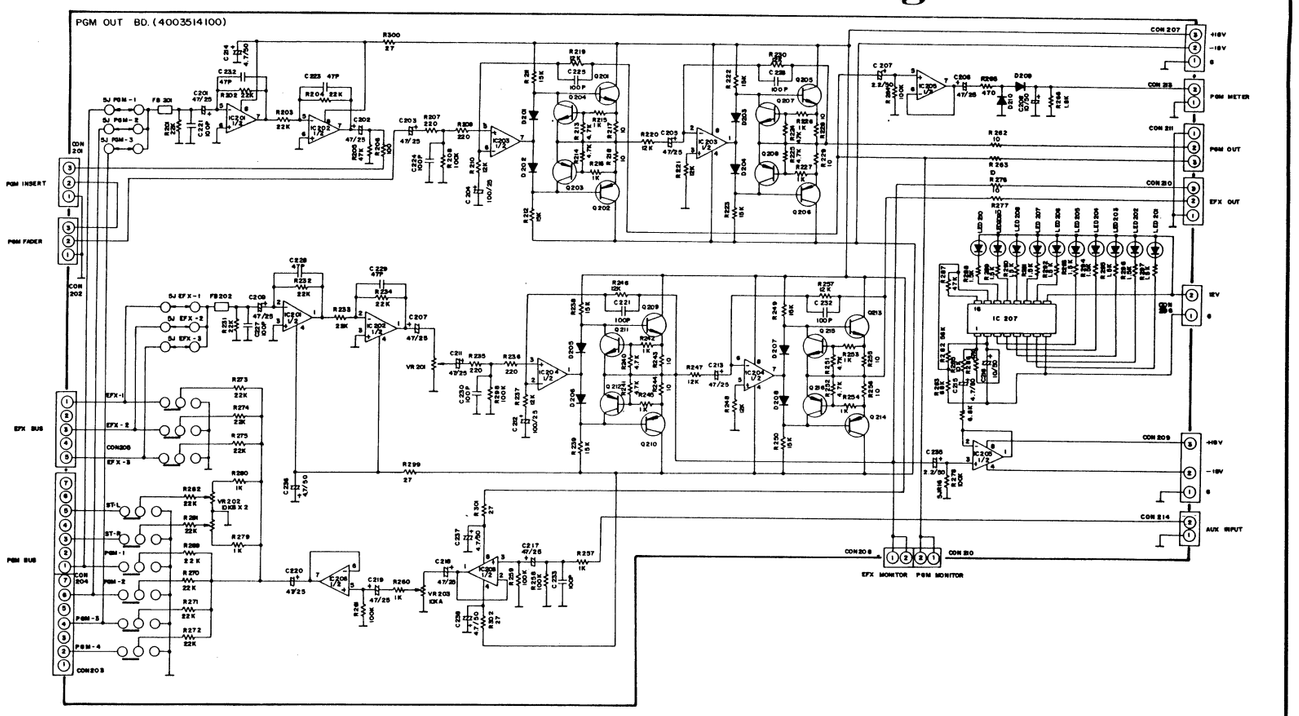
1. RESISTANCE VALUES ARE INDICATED IN OHMS UNLESS OTHERWISE SPECIFIED. (K=1,000, M=1,000,000)
2. CAPACITANCE VALUES ARE SHOWN IN MICROFARADS UNLESS OTHERWISE NOTED. (P= MICRO - MICROFARADS)

2SC 2001(Y)
2SA 2001(Y)
2SC 1815(Y)
2SA1015(Y)



IC 4558
IC 2068
IC 5532D

PGM Out B'd Schematic Diagram



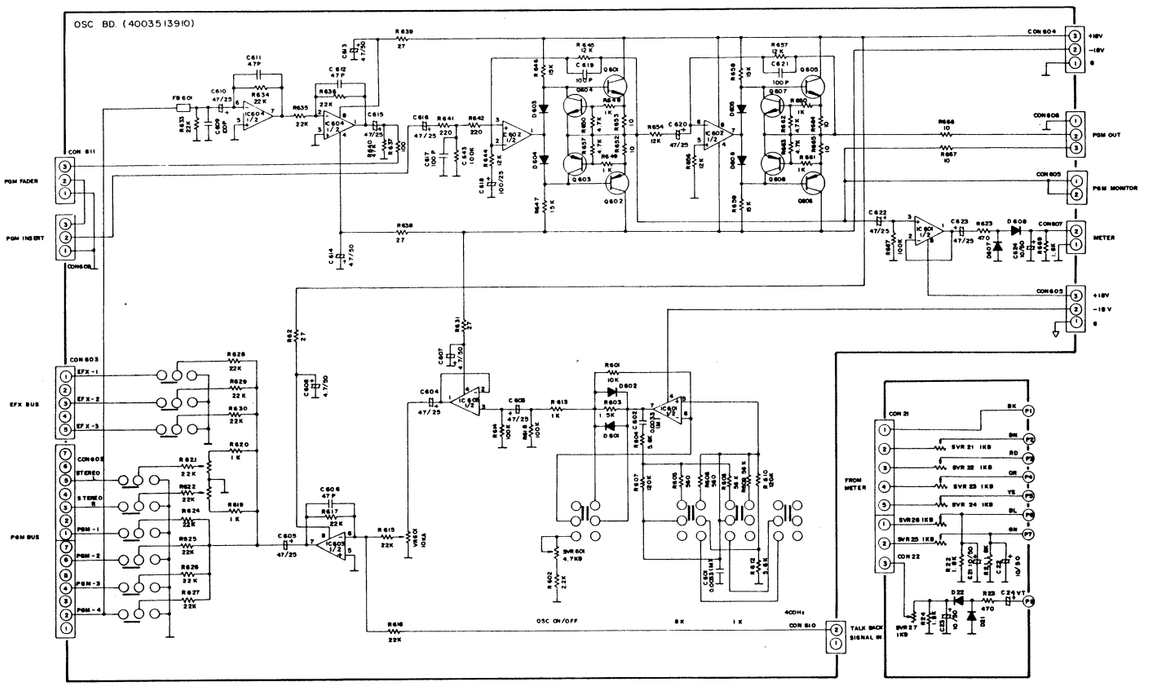
NOTE : IC 201 , 202, 205, 206 : IC 4558
IC 203, 204 : IC 5532
IC 207 : KA 2281
Q 201, 205, 209, 213 : 2SC 2001(Y)
Q 202 , 206, 210, 214 : 2SA 2001(Y)
Q 204, 207, 211, 215 : 2SC 1815(Y)
Q 203, 208, 212, 216 : 2SA 1015(Y)
D 201 - 208 : CD 824
D 209, D 210 : IN 60
LED 201 - 203 : RED SLR - 55 ROHM
LED 204 : YELLOW SLR - 55 ROHM
LED 205 - 210 : GREEN SLR - 55 ROHM

1. RESISTANCE VALUES ARE INDICATED IN OHMS UNLESS OTHERWISE SPECIFIED. (K=1,000, M=1,000,000)
2. CAPACITANCE VALUES ARE SHOWN IN MICROFARADS UNLESS OTHERWISE NOTED. (P= MICRO - MICROFARADS)

2SC 2001(Y)
2SA 2001(Y)
2SC 1815(Y)
2SA1015(Y)

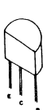
IC 4558
IC 5532

OSC B'd Schematic Diagram

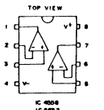


NOTE : IC 601, 603, 604 : IC 4066
IC 602 : IC 8532
Q501, Q505 : 2SC 200 (Y)
Q502, Q506 : 2SA 200 (Y)
Q504, Q507 : 2SC 1815 (Y)
Q503, Q508 : 2SA 1015 (Y)
Q603 - 606 : CDS 24
D601, D602, D607, D608, D21, D22 : 1N 60

1. RESISTANCE VALUES ARE INDICATED IN OHMS UNLESS OTHERWISE SPECIFIED
(K=1,000, M=1,000,000)
2. CAPACITANCE VALUES ARE SHOWN IN MICROFARADS UNLESS OTHERWISE NOTED
(P= MICRO - MICRO FARADS)



2SC 200(Y)
2SA 200(Y)
2SC 1815(Y)
2SA 1015(Y)



Block Diagram